**STUDENT INFORMATION SYSTEM**

#include <iostream>

#include <cstdio>

#include <cstring>

#include <cstdlib>

#include <conio.h>

#include <iomanip>

using namespace std;

int main() {

FILE \*fp, \*ft;

char another, choice;

struct student {

char first\_name[50], last\_name[50];

char course[100];

int section;

};

struct student e;

char xfirst\_name[50], xlast\_name[50];

long int recsize;

fp=fopen("users.txt","rb+");

if (fp == NULL) {

fp = fopen("users.txt","wb+");

if (fp==NULL)

{

puts("Cannot open file");

return 0;

}

}

recsize = sizeof(e);

while(1) {

system("cls");

cout << "\t\t====== STUDENT INFORMATION SYSTEM ======";

cout <<"\n\n ";

cout << "\n\n";

cout << "\n \t\t\t 1. Add Records";

cout << "\n \t\t\t 2. List Records";

cout << "\n \t\t\t 3. Modify Records";

cout << "\n \t\t\t 4. Delete Records";

cout << "\n \t\t\t 5. Exit Program";

cout << "\n\n";

cout << "\t\t\t Select Your Choice :=> ";

fflush(stdin);

choice = getche();

switch(choice)

{

case '1' :

fseek(fp,0,SEEK\_END);

another ='Y';

while(another == 'Y' || another == 'y')

{

system("cls");

cout << "Enter the Firt Name : ";

cin >> e.first\_name;

cout << "Enter the Last Name : ";

cin >> e.last\_name;

cout << "Enter the Course : ";

cin >> e.course;

cout << "Enter the Section : ";

cin >> e.section;

fwrite(&e,recsize,1,fp);

cout << "\n Add Another Record (Y/N) ";

fflush(stdin);

another = getchar();

}

break;

case '2':

system("cls");a

rewind(fp);

cout << "=== View the Records in the Database ===";

cout << "\n";

while (fread(&e,recsize,1,fp) == 1){

cout << "\n";

cout <<"\n" << e.first\_name << setw(10) << e.last\_name;

cout << "\n";

cout <<"\n" <<e.course << setw(8) << e.section;

}

cout << "\n\n";

system("pause");

break;

case '3' :

system("cls");

another = 'Y';

while (another == 'Y'|| another == 'y')

{

cout << "\n Enter the last name of the student : ";

cin >> xlast\_name;

rewind(fp);

while (fread(&e,recsize,1,fp) == 1)

{

if (strcmp(e.last\_name,xlast\_name) == 0)

{

cout << "Enter new the Firt Name : ";

cin >> e.first\_name;

cout << "Enter new the Last Name : ";

cin >> e.last\_name;

cout << "Enter new the Course : ";

cin >> e.course;

cout << "Enter new the Section : ";

cin >> e.section;

fseek(fp, - recsize, SEEK\_CUR);

fwrite(&e,recsize,1,fp);

break;

}

else

cout<<"record not found";

}

cout << "\n Modify Another Record (Y/N) ";

fflush(stdin);

another = getchar();

}

break;

case '4':

system("cls");

another = 'Y';

while (another == 'Y'|| another == 'y')

{

cout << "\n Enter the last name of the student to delete : ";

cin >> xlast\_name;

ft = fopen("temp.dat", "wb");

rewind(fp);

while (fread (&e, recsize,1,fp) == 1)

if (strcmp(e.last\_name,xlast\_name) != 0)

{

fwrite(&e,recsize,1,ft);

}

fclose(fp);

fclose(ft);

remove("users.txt");

rename("temp.dat","users.txt");

fp=fopen("users.txt","rb+");

cout << "\n Delete Another Record (Y/N) ";

fflush(stdin);

another = getchar();

}

break;

case '5':

fclose(fp);

cout << "\n\n";

cout << "\t\t THANK YOU FOR USING THIS SOFTWARE";

cout << "\n\n";

exit(0);

}

}

system("pause");

return 0;

}

====== STUDENT INFORMATION SYSTEM ======

                                                                                                 1. Add    Records

                         2. List   Records

                         3. Modify Records

                         4. Delete Records

                         5. Exit   Program

                         Select Your Choice :=> 1

Enter the Firt Name : aarti

Enter the Last Name : pukale

Enter the Course    : computer

Enter the Section   : 1

====== STUDENT INFORMATION SYSTEM ======

                                                                                                  1. Add    Records

                         2. List   Records

                         3. Modify Records

                         4. Delete Records

                         5. Exit   Program

                         Select Your Choice :=> 1

Enter the Firt Name : jyoti

Enter the Last Name : some

Enter the Course    : it

Enter the Section   : 2

====== STUDENT INFORMATION SYSTEM ======

                                                                                                   1. Add    Records

                         2. List   Records

                         3. Modify Records

                         4. Delete Records

                         5. Exit   Program

                         Select Your Choice :=> 2

=== View the Records in the Database ===

aarti    pukale

computer       1

jyoti      some

it       2

 ====== STUDENT INFORMATION SYSTEM ======

                                                                                                   1. Add    Records

                         2. List   Records

                         3. Modify Records

                         4. Delete Records

                         5. Exit   Program

                         Select Your Choice :=> 3

 Enter the last name of the student : some

record not foundEnter new the Firt Name : srushti

Enter new the Last Name : pagare

Enter new the Course    : electronic

Enter new the Section   : 4

 ====== STUDENT INFORMATION SYSTEM ======

                         1. Add    Records

                         2. List   Records

                         3. Modify Records

                         4. Delete Records

                         5. Exit   Program

                         Select Your Choice :=> 2

=== View the Records in the Database ===

                                                                          aarti    pukale

computer       1

                                                                          srushti    pagare

electronic       4

====== STUDENT INFORMATION SYSTEM ======

                         1. Add    Records

                         2. List   Records

                         3. Modify Records

                         4. Delete Records

                         5. Exit   Program

                         Select Your Choice :=> 4

Enter the last name of the student to delete : pagare

 ====== STUDENT INFORMATION SYSTEM ======

                                                                                                   1. Add    Records

                         2. List   Records

                         3. Modify Records

                         4. Delete Records

                         5. Exit   Program

                         Select Your Choice :=> 2

=== View the Records in the Database ===

aarti    pukale

computer       1

====== STUDENT INFORMATION SYSTEM ======

                                                                                                   1. Add    Records

                         2. List   Records

                         3. Modify Records

                         4. Delete Records

                         5. Exit   Program

                         Select Your Choice :=> 5